

Land Classification Interpretations

Prime and Important Farmland

Prime farmland is land that has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops, and is also available for these uses (the land could be cropland, pastureland, forest land, or other land, but not urban built-up land or water). It has the soil quality, growing season, and moisture supply needed to economically produce sustained high yields of crops when treated and managed, including water management, according to acceptable farming methods.

In general, prime farmlands have an adequate and dependable water supply from precipitation or irrigation, a favorable temperature and growing season, acceptable acidity or alkalinity, acceptable salt content, and few or no rocks. They are permeable to water and air. Prime farmlands are not excessively erodible or saturated with water for a long period of time, and they either do not flood frequently or are protected from flooding.

This section includes lists of soil survey map units that meet the soil requirements for prime farmland in the county and state. Soils that have limitations, such as a high water table or flooding, may qualify as prime farmland if these limitations are overcome by such measures as drainage or flood control. State important soils are also noted.

This subsection includes:

- **(a) County Prime Farmland List**
- **(b) Missouri's Soil Survey Mapping Units Denoting Prime Farmland and Farmland of Statewide Importance**

Cole County, Missouri
Prime Farmland

(Only the soils considered prime farmland are listed. Urban or built-up areas of the soils listed are not considered prime farmland. If a soil is prime farmland only under certain conditions, the conditions are specified in parentheses after the soil name.)

Map symbol	Soil name
15002	MCGIRK SILT LOAM, 1 TO 3 PERCENT SLOPES (Prime farmland if drained)
64002	FREEBURG SILT LOAM, 1 TO 3 PERCENT SLOPES
64007	FREEBURG SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED
64011	KLIEVER LOAM, 2 TO 5 PERCENT SLOPES
66000	MONITEAU SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED (Prime farmland if drained)
66004	DOCKERY SILT LOAM, 0 TO 2 PERCENT SLOPES, FREQUENTLY FLOODED (Prime farmland if protected from flooding or not frequently flooded during the growing season)
66006	WALDRON SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED
66009	HAYNIE SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED
66026	BLAKE LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED
66027	HAYNIE VERY FINE SANDY LOAM, 0 to 2 PERCENT SLOPES, FREQUENTLY FLOODED (Prime farmland if protected from flooding or not frequently flooded during the growing season)
66028	LETA SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED
70046	SACVILLE SILT LOAM, 2 TO 5 PERCENT SLOPES (Prime farmland if drained)
73040	MAPLEWOOD SILT LOAM, 2 TO 5 PERCENT SLOPES, ERODED
73258	COTTON SILT LOAM, 1 TO 3 PERCENT SLOPES, ERODED
73260	MAPLEWOOD SILT LOAM, 2 TO 5 PERCENT SLOPES, BEDROCK SUBSTRATUM
74659	DEIBLE SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED (Prime farmland if drained)
74678	RACON SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED (Prime farmland if drained)
75387	HACREEK SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED
75399	JAMESFIN SILT LOAM, 0 TO 3 PERCENT SLOPES, FREQUENTLY FLOODED (Prime farmland if protected from flooding or not frequently flooded during the growing season)
75415	JEMERSON SILT LOAM, 0 TO 3 PERCENT SLOPES, OCCASIONALLY FLOODED
75456	RACKET SILT LOAM, 0 TO 3 PERCENT SLOPES, FREQUENTLY FLOODED, CLAYEY SUBSTRATUM (Prime farmland if protected from flooding or not frequently flooded during the growing season)
75458	TANGLENOOK SILTY CLAY LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED (Prime farmland if drained)